# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2013-14

Date: 13.03.2014

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| AGENCY | : | **Technical Manager** , KRIDL, Bangalore. |
| NAME OF THE WORK | : | Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| REFERENCE | : | AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| SAMPLE ID | : | Cement |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-1989 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 155 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 485 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 26.50 % | - |

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ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ ಸಂ . ಬೆಂಗಳೂರು-97.

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2013-14 : 13.03.2014

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager,** KRIDL, Bangalore.

**Name of Work** : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014

Date of Testing : 13.03.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 88 | 4.40 | 4.40 | 95.6 | 90-100 |
| 2.36 | 218 | 10.90 | 15.30 | 84.7 | 75-100 |
| 1.18 | 488 | 24.40 | 39.70 | 60.3 | 55-90 |
| 600 Micron | 430 | 21.50 | 61.20 | 38.8 | 35-59 |
| 300 Micron | 501 | 25.05 | 86.25 | 13.8 | 8-30 |
| 150 Micron | 216 | 10.80 | 97.05 | 3.0 | 0-10 |

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ಬಿ.ಬಿ.ಎಂ.ಪಿ
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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.10/KRIDL/AGG/2013-14 : 13.03.2014

## TEST REPORT ON COARSE AGGREGATES
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

**Agency** : **Technical Manager,** KRIDL, Bangalore.

**Name of Work** : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014

Date of Testing : 13.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25200**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 1010 | 4.01 | 4.01 | 95.99 | 95-100 |
| 20 | 15485 | 61.45 | 65.46 | 34.54 | 30-70 |
| 10 | 5924 | 23.51 | 88.96 | 11.04 | 10-35 |
| 4.75 | 2490 | 9.88 | 98.85 | 1.15 | |

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Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2013-14 15.03.2014

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| Client | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | : | **Technical Manager**, KRIDL, Bangalore. |
| Name of the work | : | Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : | AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Date of Test | : | 15.03.2014 |
| Technical Reference | : | IS: 1786-2008 |

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm² | Tensile strength (Ultimate stress) N/mm² | Elongation percent gauge length | | |
| 1 | 8 | 0.40 | 510 | 542 | 12.80 | O.K | O.K |

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Basaveshwaranagar,
Bangalore-560079.


#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2013-14 15.03.2014

## TEST REPORT ON REINFORCEMENT STEEL

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|---|---|---|
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| Technical Reference | : | IS: 1786-2008 |

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm² | Tensile strength (Ultimate stress) N/mm² | Elongation percent gauge length | | |
| 1 | 10 | 0.62 | 513 | 546 | 13.10 | O.K | O.K |

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2013-14

15.03.2014

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| Client | : | **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | : | **Technical Manager**, KRIDL, Bangalore. |
| Name of the work | : | Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : | AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Date of Test | : | 15.03.2014 |
| Technical Reference | : | IS: 1786-2008 |

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm² | Tensile strength (Ultimate stress) N/mm² | Elongation percent gauge length | | |
| 1 | 12 | 0.89 | 515 | 550 | 13.35 | O.K | O.K |

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ಯಲಹಂಕ ಬೆಂಗಳೂರು.

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 18.04.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | **: Technical Manager,** KRIDL, Bangalore. |
| Name of the work | : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.03.2014 | 18.04.2014 | 8.145 | 478.3 | 21.26 |
| 2 | 21.03.2014 | 18.04.2014 | 8.250 | 488.5 | 21.71 |
| 3 | 21.03.2014 | 18.04.2014 | 8.365 | 502.6 | 22.34 |

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 25.04.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | **: Technical Manager,** KRIDL, Bangalore. |
| Name of the work | : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 28.03.2014 | 25.04.2014 | 8.368 | 503.6 | 22.38 |
| 2 | 28.03.2014 | 25.04.2014 | 8.135 | 474.3 | 21.08 |
| 3 | 28.03.2014 | 25.04.2014 | 8.245 | 483.5 | 21.49 |

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 30.04.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | **: Technical Manager,** KRIDL, Bangalore. |
| Name of the work | : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Sample ID | : Road Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 02.04.2014 | 30.04.2014 | 8.135 | 479.6 | 21.32 |
| 2 | 02.04.2014 | 30.04.2014 | 8.369 | 507.2 | 22.54 |
| 3 | 02.04.2014 | 30.04.2014 | 8.266 | 486.9 | 21.64 |

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**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 29.04.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Agency | : **Technical Manager,** KRIDL, Bangalore. |
| Name of the work | : Construction of CC road at Kerosine bunk surroundings cross roads in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore. |
| Reference | : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Sample ID | : Road Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 01.04.2014 | 29.04.2014 | 8.385 | 510.4 | 22.68 |
| 2 | 01.04.2014 | 29.04.2014 | 8.156 | 482.3 | 21.44 |
| 3 | 01.04.2014 | 29.04.2014 | 8.269 | 496.5 | 22.07 |

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Bangalore-560079.


#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 29.04.2014

## TEST REPORT ON CONCRETE CUBES

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|---|---|
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| Reference | : AEE/VSD/PR/451/3/2013-14 Dated: 11.03.2014 |
| Sample ID | : Road Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 01.04.2014 | 29.04.2014 | 8.388 | 511.2 | 22.72 |
| 2 | 01.04.2014 | 29.04.2014 | 8.259 | 493.5 | 21.93 |
| 3 | 01.04.2014 | 29.04.2014 | 8.147 | 486.5 | 21.62 |

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